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TCCATGCTGCACTGTGTGGCCAACCCCATCCTCTACAACCTTTCTCAGCCCCGAGCTTCCGGGG.
 CCGACTGCTGAGCCTTGTGGTTCGTTACCTTCCCAAGGAGCAGGCCAGGGCAGCAGGTGGTC
 GTGCCTCCTCTTCTTCTTCCACCCAGCACTCCATCATCATTACCAAAGAGGGCAGCCTGCCC
 GCTGCAGCGGATCTCCACACCCACCCCATCCGAAACGTTTCAGGCGTCCTCTCCGCCTCCAAA
 CACCTCACCTACACTCTGCAATTCCGTAGCCAGCTAAGGTAGACTCTAGCTTCCCTCCACCAA
 TAAGAAAGTTCAGAGGGGGATGCGAGAGGTCTGTGGGAGGGGGTGGGAAGGACTGGCTTGTT
 CAGGGCCAATTTAAGTATATCAAAACGTTGCTGTGGGGAGAGGGAAACGGTTCGGGAAGGAC
 AGAGAATGGATCTTTCCTTGATAGTACACTATTTGTTTGGGTACTGATGTCTAAGGGAGCCA
 CACCGGTGGGGCGTGGGGGGTGGGGAAGCG (SEQ ID NO:1)

FIGURE 1

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underlined = deleted in targeting construct

[] = sequence flanking Neo insert in targeting construct

[TCCATGCTGCACTGTGTGGCCAACCCCATCCTCTAC] AACTTTCTCAGCCCCGAGCTTCC
GGGGCCGACTGCTGAGCCTTGTGGTTCGTTACCTTCCCAAGGAGCAGGCCAGGGCAGCAG
GTGGTCGTGCCTCCTCTTC [TCTTCCACCCAGCACTCCATCATCATTACCAAAGAGGGC
AGCCTGCCCCGCTGCAGCGGATCTCCACACCCACCCCATCCGAAACGTTTCAGGCGTCCTCT
CCGCCTCCAAACACCTCACCTACACTCTGCAATTCCGTAGCCAGCTAAGGTAGACTCTAG
CTTCCCTCCACCAATAAGAAAGTTCAGAGGGGGATGCGAGAGGTCTGTGGGAGGGGGTGGG
AAGGACTGGCTTGTTTCAGGGCCAATTTAAGTATATCAAAACGTTGCTGTGGGGAGAGGGA
AACGGTTCGGGAAGGACAGAGAATGGATCTTTCCTTGATAGTACACTATTTGTTTGGGTA
CTGATGTCTAAGGGAGCCACACCGGTGGGGCGTGGGGGGTGGGGAAGCG]

FIGURE 2A

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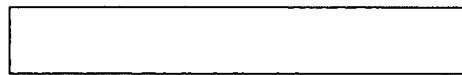
Gene Sequence Structure *

37 bp

Sequence Deleted

137 bp

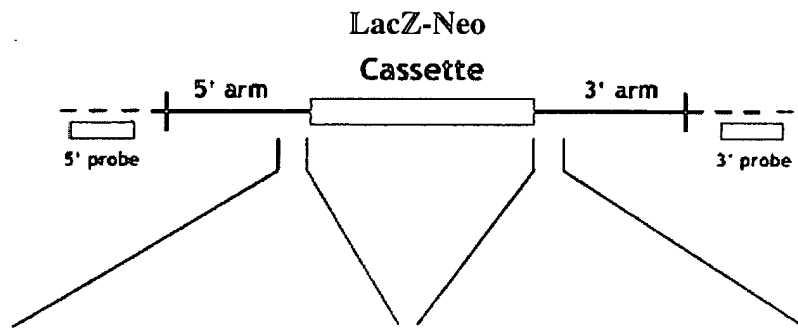
Size of partial
cDNA: 526 bp



Targeting Vector* (genomic sequence)

Construct Number: 3267

Arm Length:
5': 2.5 kb
3': 1.8 kb



5' >GGCGCCACTGCCTGTTGATGT
GGGCTTACATAGTTGTCTTTGCCA
TCTGCTGGCTGCCCTACCAAGTGA
CTATGCTGCTGCTCACTCTGCACG
GGACCCACATCTTCCTCCACTGTC
ACCTGGTTAACCTTCTCTACTTCT
TCTACGAAATCATCGACTGCTTTT
CCATGCTGCACTGTGTGGCCAACC
CCATCCTCTAC<3'
(SEQ ID NO:2)

5' >TTCTTCCACCCAGCACTCCAT
CATCATTACCAAAGAGGGCAGCCT
GCCCCTGCAGCGGATCTCCACAC
CCACCCCATCCGAAACGTTTCAGGC
GTCCTCTCCGCCTCCAAACACCTC
ACCTACACTCTGCAATTCTGTAGC
CAGCTAAGGTAGACTCTAGCTTCC
TCCACCAACAAGAAAGTTCAGAGG
GGGATGCGAGA<3'
(SEQ ID NO:3)

———— Targeting Vector
----- Endogenous Locus

* Not drawn to scale

FIGURE 2B